Graduate Research Position in the Combustion and Gas Dynamics Laboratory

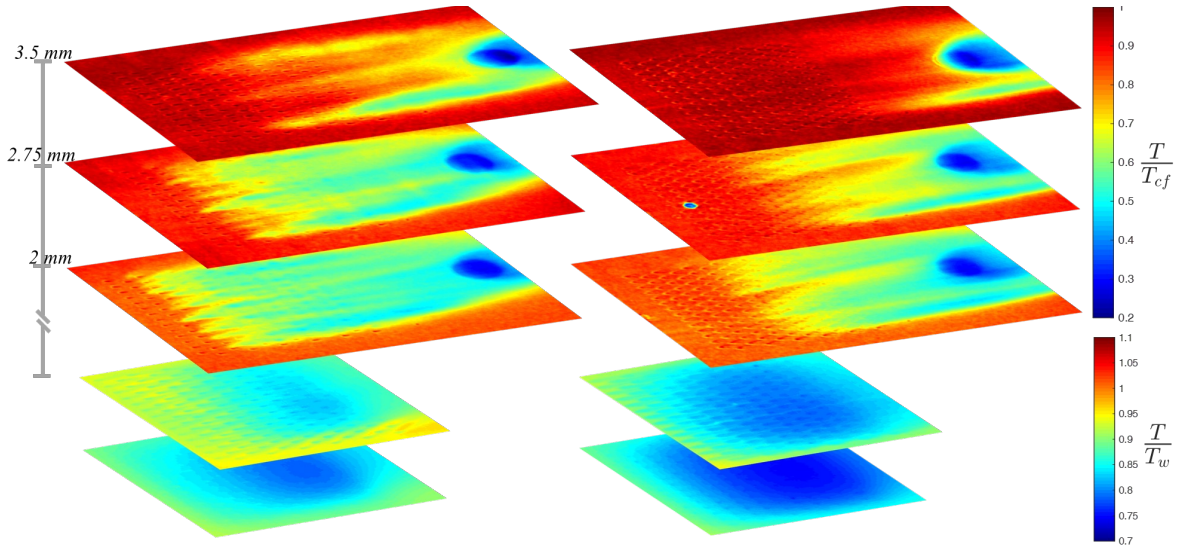
- Either Accelerated MS (senior year +1) or 2-year program for MS
  - 21 Course Credits (7 courses) and 9 Research Credits
- Qualifications
  - US citizen or green card holder
  - Major in Mechanical Engineering or closely related field

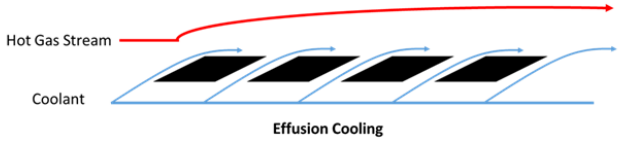
If interested, please reach out to baki.cetegen@uconn.edu with your resume

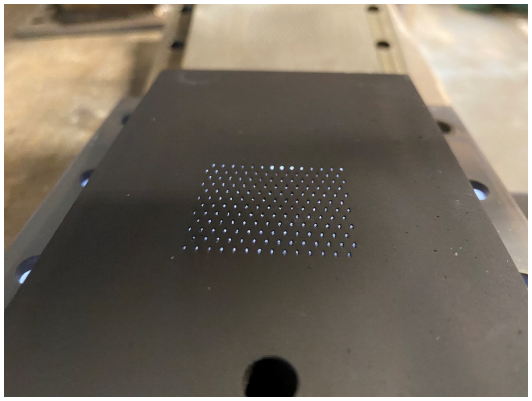
- You may also email matthew.boguszewski@uconn.edu if you have any questions

Our Research

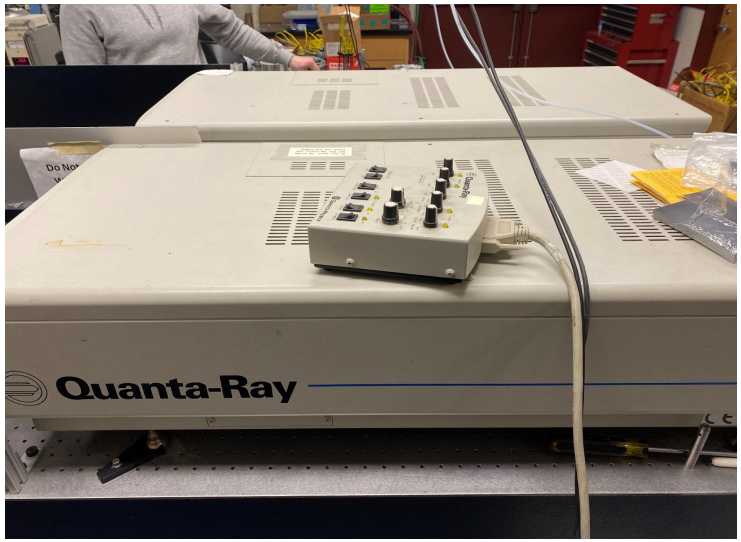
- Work with Pratt and Whitney to perform thermal analysis of varying combustor liner cooling designs
- Quantify cooling effectiveness by means of Infrared Imaging and Laser Rayleigh Scattering



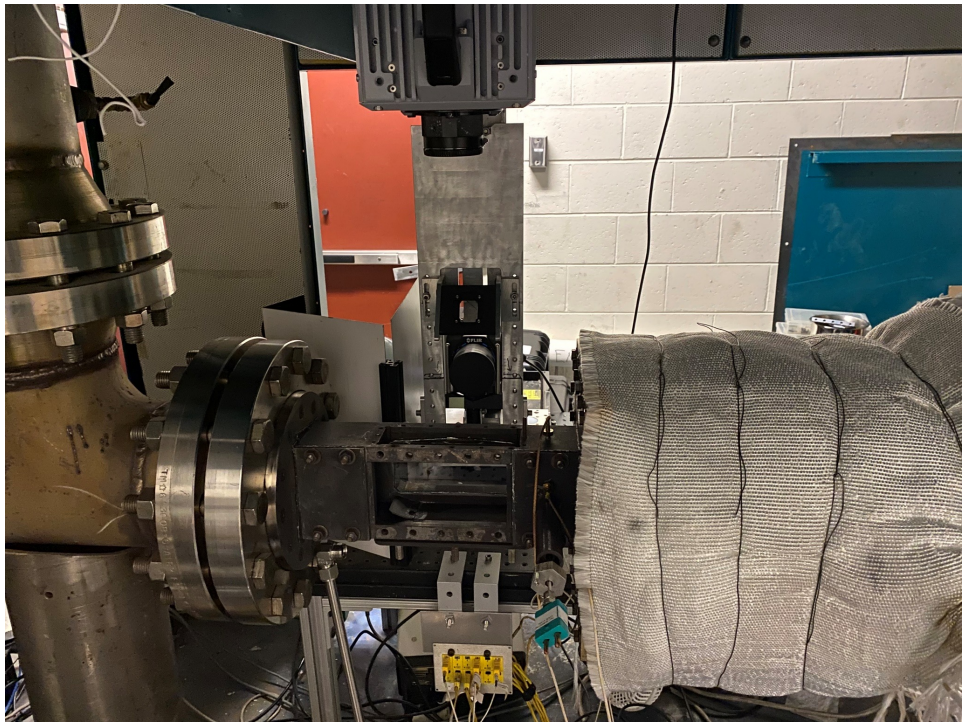




Test plate from 2021 testing



Pulsed Nd-YAG Lasers for Laser Rayleigh Scattering



Effusion Cooling Test Rig

Benefits

- You will learn to use advanced laser diagnostics to investigate heat transfer in gas turbine combustors
- You will be exposed to industrially-relevant problems applying your mechanical engineering knowledge
- You will interact with Pratt engineers during the course of your study
- Job opportunities at Pratt & Whitney upon successful completion of your degree
- Extension to Ph.D. studies for highly motivated students is possible